BNL BERYLLIUM USE REVIEW FORM (BeO)

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CURRENT: OPERATIONS CURRENTLY BEING DONE)			
Complete a separate of	questionnaire for each beryllium operation.		
Department	(machine shop, accelerator, experiment, laboratory)		
	National Synchrotron Light Source (Accelerator)		
Use of Beryllium	(detector window, beam pipe, reaction product, stock)		
Ose of Derymum	Beryllium Oxide (BeO), Beryllia		
	Insulators, beam filtering windows, shims		
Describe Use or Process	Only handled as an APTICLE		
Describe Use of Process	Only handled as an ARTICLE		
Description of	1. At 14 locations around X-ray ring, BeO discs 5mm thick $x \sim 1$ " diam. Act as		
Operation/Handling	filtering windows @ hard X-ray monitoring ports (in vacuum).		
Procedure:	2. Beam position monitors located at the U14, X1, X12 and X13 beamlines		
	have BeO shims (8/monitor) for electrical isolation and thermal conductivity (in vacuum).		
	3. Items above manufactured by Acuratus in New Jersey.		
	4. RF cavities have ceramic insulators made of BeO.		
	5. Note: I was informed that transistors may have BeO insulators. These		
Physical State of Be	would be everywhere at BNL. Solid (sheet) Oxide		
Amount Used	N.A.		
Building: 725	Room: X-ray and VUV experimental floors.		
	Inside X-ray and VUV rings		
	Room 2-190A (storage) Near RF test cave in cabinet		
Frequency of Use	In continuous use		
Engineering Controls:	No machining		
Personal Protective	Gloves: Impervious		
Equipment	Clothing: Lab Coat (sometimes)		
	Respirator: None		
	Frequency: Occasional		
Users (with life number or job title)	Name & Status (Current)		
	Current techs and scientists:		
	Erik Johnson, Tony Lenhard, Gerry Van Derlaske, Rick Greene, Rich Freudenberg, Jim Newburgh		
Emergency Response	Material could crack into small pieces.		
Scenario			
[Describe likely event(s)]			
Written Documentation and	NSLS PRM 6.3.0 "Beryllium Management" outlines the NSLS beryllium		
Emergency Response	program, including:		
	 Responsibilities 		
	 Work Control Requirements Storage and Handling 		
	Damaged Articles		
	Oxidized Articles		
	 Training 		
	Wastes		
	BNL Industrial Health staff is contacted to conduct surface and air monitoring as		
	necessary. Guidance is also provided to staff in NSLS ESH Highlight No. 16 "Beryllium -		
	Know What You have and Take Care Of It" as well as in the Facility Specific		
	Safety Orientation training module ("Beryllium").		

Pollution Prevention Plan	N.A. No machining.	
End of Project Plan	End-of-Project Plan would involve dealing with any remaining beryllium as a	
	waste as described in NSLS PRM 6.3.0.	

Person Completing the Questionnaire

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